Service Manua

FM-MW-SW1~4 6-Band Portable Radio RF-B300@



■ SPECIFICATIONS

SW

Frequency Range:

SW1 1.6~4MHz SW2 4~10 MHz SW3 10~20 MHz

SW4 20~30 MHz

Type: IF:

Double superheterodyne SW2~4

Selectivity:

1st IF; 2MHz 2nd IF; 455kHz

Sensitivity: 400 Hz, 30% Modulation 50 mW

S/N 20dB MAX 35 uV/m 125µV/m 1.8µV 9µV SW2 SW3 1.0 uV 6µV 10 µV

SW4 4µV

SW2~4:

±3.5kHz (-6dB) ±7.0kHz (-50dB)

NARROW ±1.5kHz (-6dB)

±4.0kHz (-50dB)

Image Interference Ratio: SW1 25dB at 4MHz

SW2 30dB at 10MHz SW3 20dB at 20MHz

Antenna:

Whip, EXT. Antenna (High Impedance) Ferrite core (SW1)

Frequency Range: Type:

Sensitivity: 400 Hz, 30% Modulation 50mW Single superheterodyne 455kHz

S/N 20dB MAX 40 uV/m

MW 525~1610kHz

180µV/m

Image Interference Ratio: 35dB at/1000kHz

Antenna:

Ferrite core

Whip, EXT Antenna (High

Impedance)

Frequency Range:

Type:

4FM 88~108 MHz Single superheterodyne

Sensitivity:

10.7 MHz 2.5μV/75Ω (-3dB, Limit Sens)

2.5 μV/75Ω (S/N 26dB)

Image Interference Ratio: 30dB at 98MHz

Antenna:

Whip, EXT. Antenna (75Ω)

General

Speaker: Power Source: 10cm (4") PM Dynamic speaker (4Ω) AC 110~127/220~240 V, 50/60 Hz

DC 9V (six "C" size Flashlight

Batteries)

(Panasonic UM-2 or equivalent)

Power Consumption:

Jacks:

Weight:

Earphone/EXT. Speaker ($4\sim8\Omega$) ϕ 3.5

REC OUT (10 kΩ) φ3.5

AC IN

EXT. Antenna:

FM 75Ω

Dimensions (W×H×D):

AM High Impedance 348×215×108mm

(1311/16×81/2×41/4)" 2.18kg (4 lb 12.8 oz) without

batteries

Weights and dimensions shown are approximate. (Les poids et dimensions mentionnes sont approximatifs.) Specifications are subject to change without notice:

anasonic

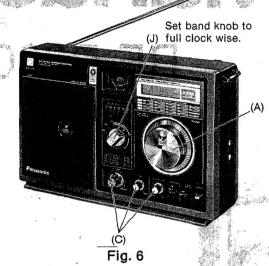
Matsushita Engineering and Service Company
50 Meadowland Parkway

91-238 Kauhi St. Ewa Beach Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada Limited 5770 Ambier Drive, Mississauga Ontario, L4W 2T3

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc. Ave, 65 De Infanteria, KM 9.7 Victoria Industrial Park Carolina, Puerto Rico 00630

DISASSEMBLY INSTRUCTIONS



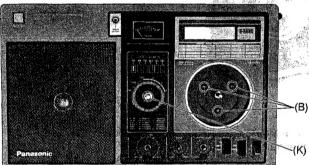
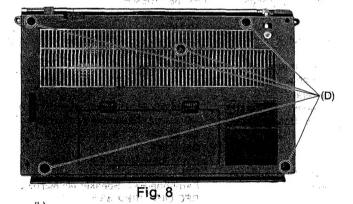


Fig. 7



(E) Set band switch to fully clockwise.

Fig. 9 Setting rib (*3)

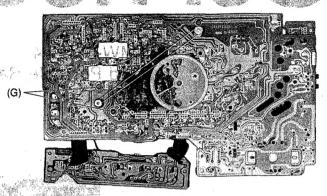


Fig. 10

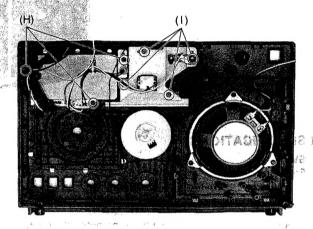


Fig. 11

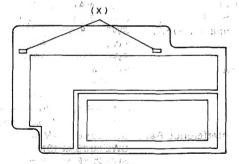
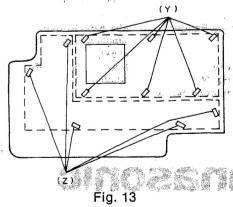
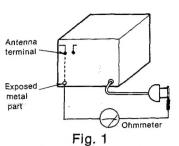


Fig. 12



SAFETY PRECAUTIONS (For U.S.A.)

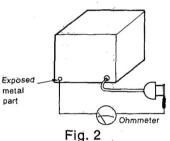
- 1. Before servicing, unplug the power cord to prevent an electric shock.
- When replacing parts, use only manufacturer's recommended components for safety.
- Check the condition of the power cord. Replace if wear or damage is evident.
- 4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers,
- Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.



Resistance = $3M\Omega$ - 5.2 M Ω

INSULATION RESISTANCE TEST (For U.S.A.)

- 1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
- 2. Turn on the power switch.
- 3. Measure the resistance value with chammeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads, antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between $3M\Omega$ and $5.2\,M\Omega$ to all exposed parts*. (Fig. 1) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. 2)
 - * Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.
- 4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.



Resistance = Approx ∞

LOCATION OF CONTROLS AND COMPONENTS

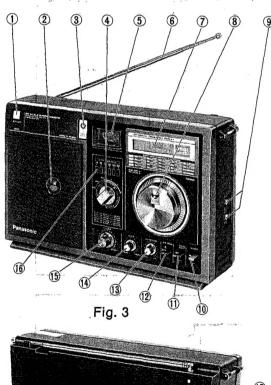


Fig. 4

- ① Light Switch (ON, OFF)
- ② Speaker 10cm (4") 4Ω
- 3 Power, Battery Indicator
- 4 Band Switch (FM, MW, SW1, SW2, SW3, SW4)
- 5 Tuning, Signal Meter
- 6 Telescopic Antenna
- (7) Frequency Display
- Tuning Control (Pull...Slow, Push...Fast)
- (9) External Antenna/Earth Terminal (FM 75Ω, AM High IMP.)
- 10 Power Switch (ON, OFF)
- 1 Band Width Switch (WIDE, NARROW)
- ② AM Mode Switch (AM, USB/CW, LSB/CW)
- 13 AM RF Gain Control
- (4) Tone Control
- 15 Volume Control
- 16 Band Switch Indicator
- Recording Output Jack (10kΩ) φ3.5
- (18) Earphone/External Speaker Jack (4~8Ω) φ 3.5
- 19 AC Voltage Selector
- 20 AC Socket
- ② Battery Compartment

BLOCK DIAGRAM

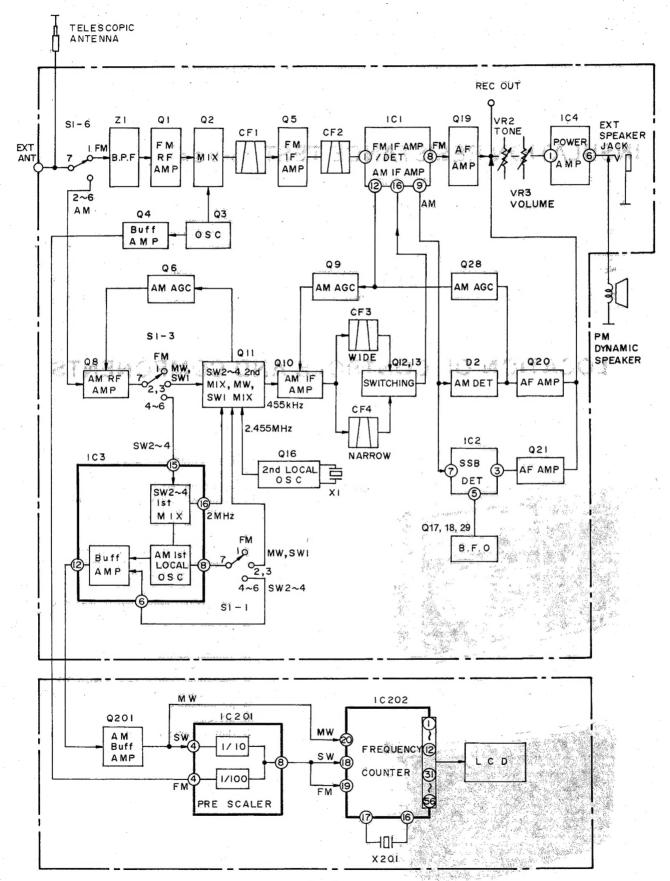
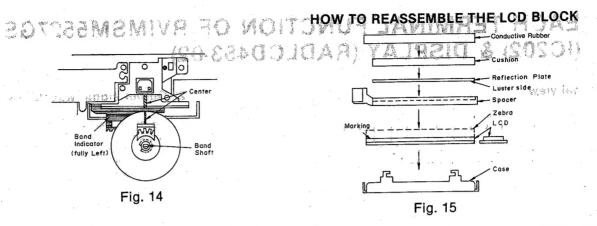


Fig. 5



Ref. No.	Procedure	Shown in Fig. —.	To remove —.	Remové —.
1		6		Tuning Knob(A)×1
2		7		Screw (3×12)(B)×3
3	1~5 .	6	Front Cabinet *1, 2	Control Knob(C)×3
4		8		Screw (3×40)(D)×5
5		9	4	Socket(E)×3
6	1∼6	9	Circuit Board	Screw (3×12)(F)×13
7	1∾7	10	Tuning Shaft Ass'y *3	Screw (3×12)(G)×2
8	1~5, 8	11	LCD Block	Screw (3×10)(H)×3
9	1~5, 9	11	Meter	Screw (3×12)(1)×4
10		6		Band Knob(J)×1
11	1∼5, 10, 11	7	Band Shaft *4	Circlip (ϕ 4)(K)×1
12	1~5, 12	9	Light Button *5	Button (L)×1
13	1~5, 8, 13	12	LCD Bracket	Unsolder(X)×2
14	1~5, 8, 13, 14	13	LCD Case	Unsolder(Y)×6
15	1~5, 8, 13~15	13	LCD Shield Cover	Unsolder(Z)×5

- *1. To reassemble the front cabinet, set AM mode switch to USB/CW, band width switch to WIDE and Power switch to ON position.
- *2. To reassemble the front cabinet, set band knob and band switch to full clockwise.
- *3. To reassemble the tuning shaft ass'y, set the rib as shown in fig. 9.
- *4. To reassemble the band shaft, set band switch indicator to full left and band shaft to center as shown in fig. 14.
- *5. To remove the light button, set light switch to OFF position.

DIAL THREADING

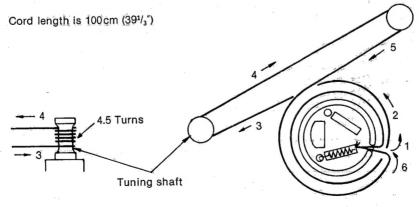


Fig. 16

RF-B300/©

EACH TERMINAL FUNCTION OF RVIMSM5527GS

(IC202) & DISPLAY (RADLCD453-02)

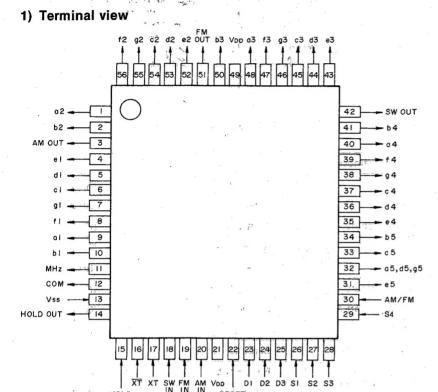


Fig. 17

2) Output signal waveforms for LCD

Fig. 18 indicates the timing chart of LCD operation.

No.	Phase of segment signal vs. common signal	Segments of LCD
1	Oposite	ON
2	Same	OFF

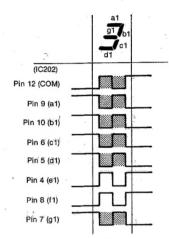
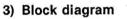
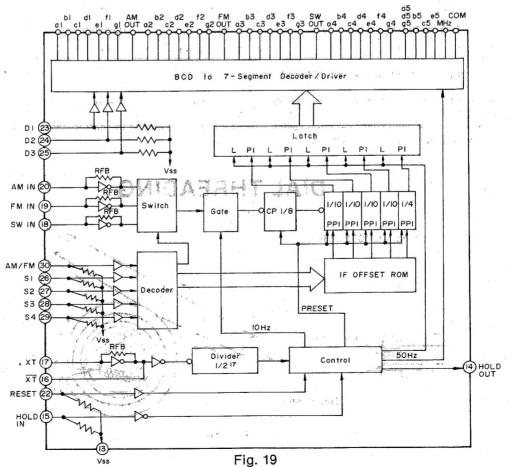


Fig. 18

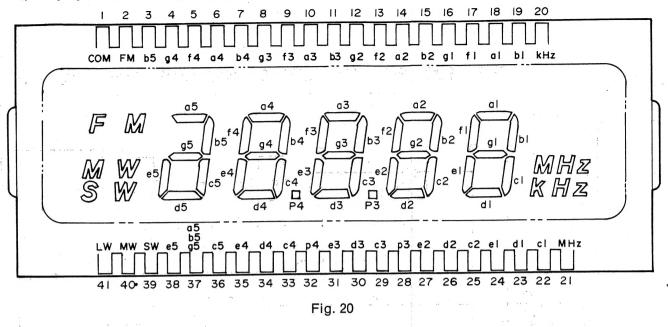




4) Explanation of each terminal

Pin No.	Symbol	Terminal	Description						
1, 2	a2, b2	LCD segment signal	Output signals for digit 2 LCD segments.						
3	AM OUT		Output signal for "MW" and "kHz" LCD segment.						
4~10	a1∼g1		Output signals for digit 1 LCD segments.						
11	MHz	0 V	Output signal for "MHz" LCD segment.						
12	СОМ	LCD common signal	Output signal for LCD COM segment.						
		3.5V 0 V							
13	Vss	Ground	Ground terminal.						
16, 17	XT, XT	Crystal oscillator Pin16-2.6Vp-p Pin17-4Vp-p 0.125 µsec	Terminals used for connecting a crystal oscillator. Connects a 6.5536 MHz crystal oscillator.						
18, 19	SW IN, FM IN	SW and FM local OSC input	The FM and SW2~4 local oscillation signal is inputted through the prescaler (FM 1/100, SW 1/10) to this terminal.						
		$ \begin{array}{c} $							
20	AM IN	MW and SW1 local OSC input	The MW and SW1 local oscillation signal is inputted directly from No. 12 pin of IC3 (AN7212) to this terminal.						
		-2.3V -0.7V							
	!	0.7µsec (AM1008KHz)							
21, 49	VDD	POWER INPUT	Power source input.						
23~25	D1~D3	Display mode select input	D1 D2 D3 Digit L L L 5 L H H 4 Low0V, Hi3.5V						
26~30	S1∼S4, AM/FM	IF off-set frequency	AM/FM S1 S2 S3 S4 MODE IF Off-Set Freq.						
		select input	L L H L L FM -10.7 MHz						
		Was to Comment of the	H L L L MW -455kHz						
			H H L L L SW1 -455kHz						
			H H L H L SW2~4 −2.0MHz						
-			Low0V, Hi3.5V						
31∼34	a5~e5, g5	LCD segment signal	Output signals for digit 5 LCD segments.						
35∼41	a4∼g4		Output signals for digit 4 LCD segments.						
42	SW OUT		Output signal for "SW" and "P4" segments of LCD.						
43∼48, 50	a3~g3		Output signals for digit 3 LCD segments.						
51	FM OUT		Output signals for "FM" and "P3" segments of LCD.						
		4	Output signals for digit 2 LCD segments.						

5) Displays internal wiring diagram



MEASUREMENTS AND ADJUSTMENTS

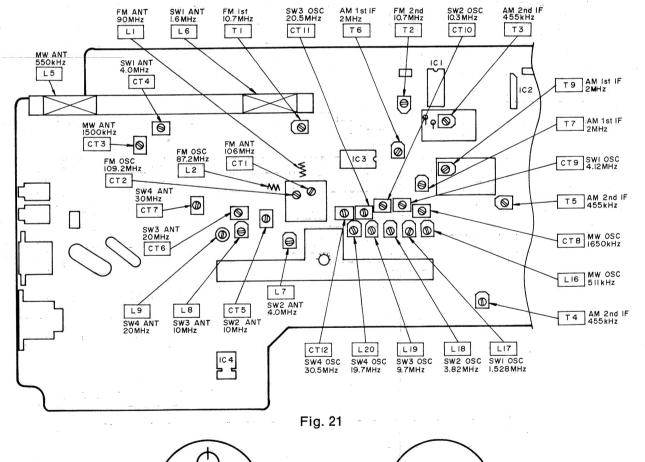


Fig. 22

ALIGNM

1. Set 2. Set or F

5. Set

MW, SW

BAND

MW

MW

MW

MW

MW

SW1

SW1

SW1

SW1

(*1) Ce

SW2

SW2

SW2

SW2

SW2

(3)

(4)

(5)

(6)

(8)

(9)

(10)

(11)

(12) (13)

(14)

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- 1. Set volume control to maximum.
- 2. Set tone control to treble.
- 3. Set band switch to MW, SW1, SW2, SW3, SW4 or FM.
- 4. Set RF gain control to maximum.
- 5. Set power switch to on.

- 6. Set AM mode switch to AM.
- 7. Set band width switch to narrow.
- Set pand width switch to harrow.
 Set power source voltage to 9V DC.
 Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW, SW1, SW2, SW3 and SW4 ALIGNMENT

	BAND	SIGNAL GENEI SWEEP GENE		RADIO DIAL (ELECTRONICS VOLTMETER		ADJUSTMENT	REMARKS				
	CONNECTIONS		FREQUENCY	SETTING	or SCOPE)						
	AM-2nd IF (455kHz) ALIGNMENT										
	MW	Fashion loop of several turns of wire and radiate signal into loop of receiver.	455 kHz 30% Mod. at 400 Hz	Point of non- interference. (on/ about 600kHz)	Output meter across voice coil.	T4 (AM 1st IFT) T5 (AM 2nd IFT) T3 (AM 3rd IFT)	Adjust for maximum output.				
				MW-RF AI	LIGNMENT						
	MW	"	511 kHz	Tuning capacitor fully closed.	н	L16 (MW OSC Coil)	Adjust for maximum output.				
-	MW	n	1,650 kHz	Tuning capacitor fully open.	"	CT8 (MW OSC Trimmer)					
	MW	W 550 kHz		Tune to signal.		(*1) L5 (MW ANT Coil)	Adjust for maximum output. Adjust L5 by moving coil bobbin along ferrite core.				
	MW	W	″ 1,500 kHz		,,		Adjust for maximum output. Repeat steps (2)~(5).				
L				SW1-RF A	LIGNMENT						
	SW1	″ 1.528 MHz		Tuning capacitor fully closed.	"	L17 (SW1 OSC Coil)	Adjust for maximum output.				
L	SW1	"	4.12MHz	Tuning capacitor fully open.	,,	CT9 (SW1 OSC Trimmer)	"				
	SW1	,	1.6 MHz	Tune to signal.	,,	(*1) L6 (SW1 ANT Coil)	Adjust for maximum output. Adjust L6 by moving coil bobbin along ferrite core.				
	SW1	и	4.0 MHz	· •	*	CT4 (SW1 ANT Trimmer)	Adjust for maximum output. Repeat steps (6)~(9).				
L	(*1) Ce	ment antenna bobbin									
L				AM-1st IF (2MF	lz) ALIGNMENT						
	SW2	Connect to test point through ceramic capacitor (10pF). Negative side to test point .	2MHz	Point of non- interference.	,	T9 (AM 1st IFT) T7 (AM 2nd IFT) T6 (AM 3rd IFT)	Adjust for maximum output.				
L				SW2-RF AL	LIGNMENT						
L	SW2		3.02 WITZ	Tuning capacitor fully closed.	. "	L18 (SW2 OSC Coil)	Adjust for maximum output.				
_	SW2	Connect to test point V through ceramic capacitor	10.3 MHz	Tuning capacitor fully open.	. "	CT10 (SW2 OSC Trimmer)	"				
_	SW2	(10pF). Negative side to	4.0 MHz	Tune to signal.	"	L7 (SW2 ANT Coil)	"				
	SW2	tesť point 🗗 .	10 MHz	"		CT5 (SW2 ANT Trimmer)	Adjust for maximum output. Repeat steps (11)∼(14).				

		SIGNAL GENE	RATOR or		INDICATOR		T	
	BAND	SWEEP GENI	ERATOR	RADIO DIAL SETTING	INDICATOR (ELECTRONICS VOLTMETER	ADJUSTMENT	REMARKS	
		CONNECTIONS	FREQUENCY		or SCOPE)			
			- 	SW3-RF A	LIGNMENT			
(15)	SW3		9.7 MHz	Tuning capacitor fully closed.	Output meter across voice coil.	L19 (SW3 OSC Coil)	Adjust for maximum output.	
(16)	SW3	Connect to test point V through ceramic capacitor	20.5MHz	Tuning capacitor, fully open.	"	CT11 (SW3 OSC Trimmer)	u	
(17)	SW3	(10pF). Negative side to test point ♥.	10 MHz	Tune to signal.	"	L8 (SW3 ANT Coil)	"	
(18)	SW3	test point 🗸 .	20 MHz		"	CT6 (SW3 ANT Trimmer)	Adjust for maximum output. Repeat steps (15)~(18).	
.		•		SW4-RF A	LIGNMENT			
(19)	SW4		19.7 MHz	Tuning capacitor fully closed.	"	L20 (SW4 OSC Coil)	Adjust for maximum output.	
(20)	SW4		30.5 MHz	Tuning capacitor fully open.	. 11	CT12 (SW4 OSC Trimmer)		
(21)	SW4		20 MHz	Tune to signal.	n	L9 (SW4 ANT Coil)	"	
(22)	SW4	30 MHz		#	" - 10 (1)	CT7 (SW4 ANT Trimmer)	Adjust for maximum output. Repeat steps (19)~(22).	
	FM ALI	GNMENT		8				
	BAND	SIGNAL GENER SWEEP GENE		RADIO DIAL	INDICATOR (ELECTRONICS			
	DAND	CONNECTIONS	FREQUENCY	SETTING	VOLTMETER or SCOPE)	ADJUSTMENT	REMARKS	
-			1.1.5	FM-IF ALI	GNMENT	1 d		
(1)	FM	High side thru. 0.001µF to test point . Negative side to test point		Point of non- interference. (on/ about 90MHz)	Connect vert. amp. of scope to test point . Negative side to test point .	T1 (FM 1st IFT)	Adjust for maximum amplitude. (Refer to fig.22.)	
(2)	FM	. "		и	n	T2 (FM 2nd IFT)	Adjust for maximum amplitude. (Refer to fig. 23.)	
-				FM-RF AL	IGNMENT			
(3)	FM		87.2MHz	Variable capacitor fully closed.	Output meter across voice coil.	L2 (FM OSC Coil)	(*2) Adjust for maximum output.	
(4)	FM	Connect to test point through FM dummy	109.2 MHz	Variable capacitor fully open.	"	CT2 (FM OSC Trimmer)	".	
(5)	FM	antenna. Negative side to test point	90 MHz	Tune to signal.		L1 (FM ANT Coil)	& u	
(6)	FM		106 MHz	n	, i	Trimmer)	(*2) Adjust for maximum output. Repeat steps (3)~(6).	
L	(* 2) Thr	ee output responses	will be present	; proper tuning is the	ne center frequency.			

8

T7 AM 1st IF

CT9 SWI OSC 4.12MHz

T5 AM 2nd IF

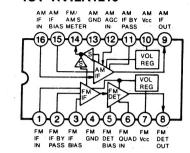
CT8 MW OSC

LI6 MW OSC 511kHz

9

■ IC BLOCK DIAGRAM

IC1 RVILA1210



(1...WIDE, 3...NARROW)
AM mode switch in "AM" position. 4. S4-1, S4-2:

(1...FM, 2...MW, 3...SW1, 4...SW2,

Band width switch in "NARROW"

(1...AM, 4...USB/CW, 2...LSB/CW) Light switch in "OFF" position. 5. S5: 6. S6: AC/DC IN switch in "DC IN"

position.

1. S1-1~S1-10: Band switch in "FM" position.

5...SW3, 6...SW4) 2. S2-1, S2-2: Power switch in "OFF" position.

position.

Notes:

3. S3:

11

7. S7: Voltage selector switch in "240 V" position.

8. VR1: AM RF gain VR. Tone control VR. VR2: VR3: Volume control VR.

9. The mark (▼) shows test point. e.g. $\nabla = \text{test point 1.}$

10. DC voltage measurement are taken with electronics voltmeter from negative terminal of

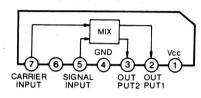
No mark...FM position, ()...AM position,]...MW, SW1 position,

>...BFO position, [[]]...SW2~4 position, USB, LSB, CW position.

11. Battery current: No signal60mA Maximum output300 mA

Important safety notice
The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing it is essential that only manufacturer's specified parts be used for the critical components in the shaded areas of the

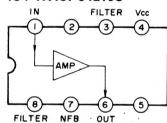
IC2 RVIUPC1037H

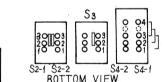


IC3 AN7212 +B

IC4 RVIUPC1213C

FM, MW, SW1, SW2, SW3, SW4



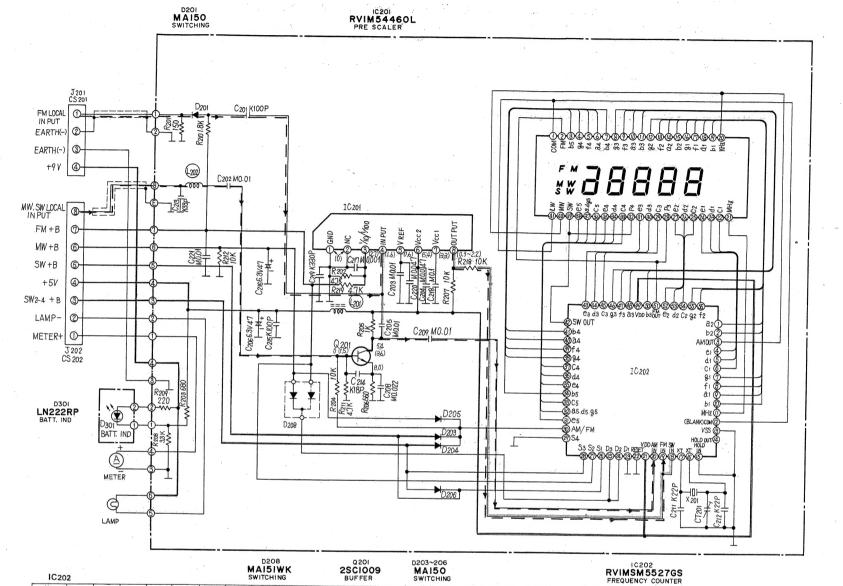


SCHEMATIC DIAGRAM MODEL RF-B300/©

TELESCOPIC ANTENNA

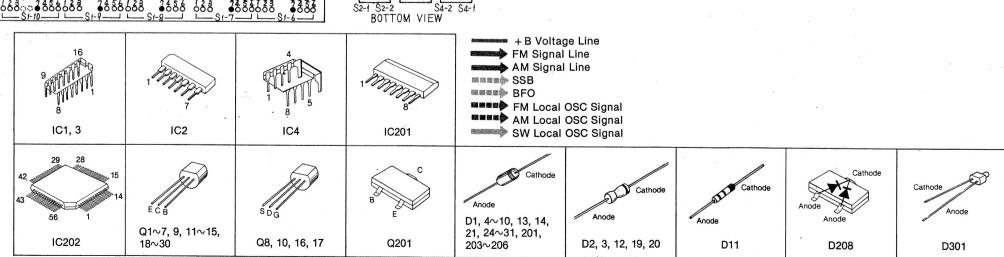
+ B 9V G

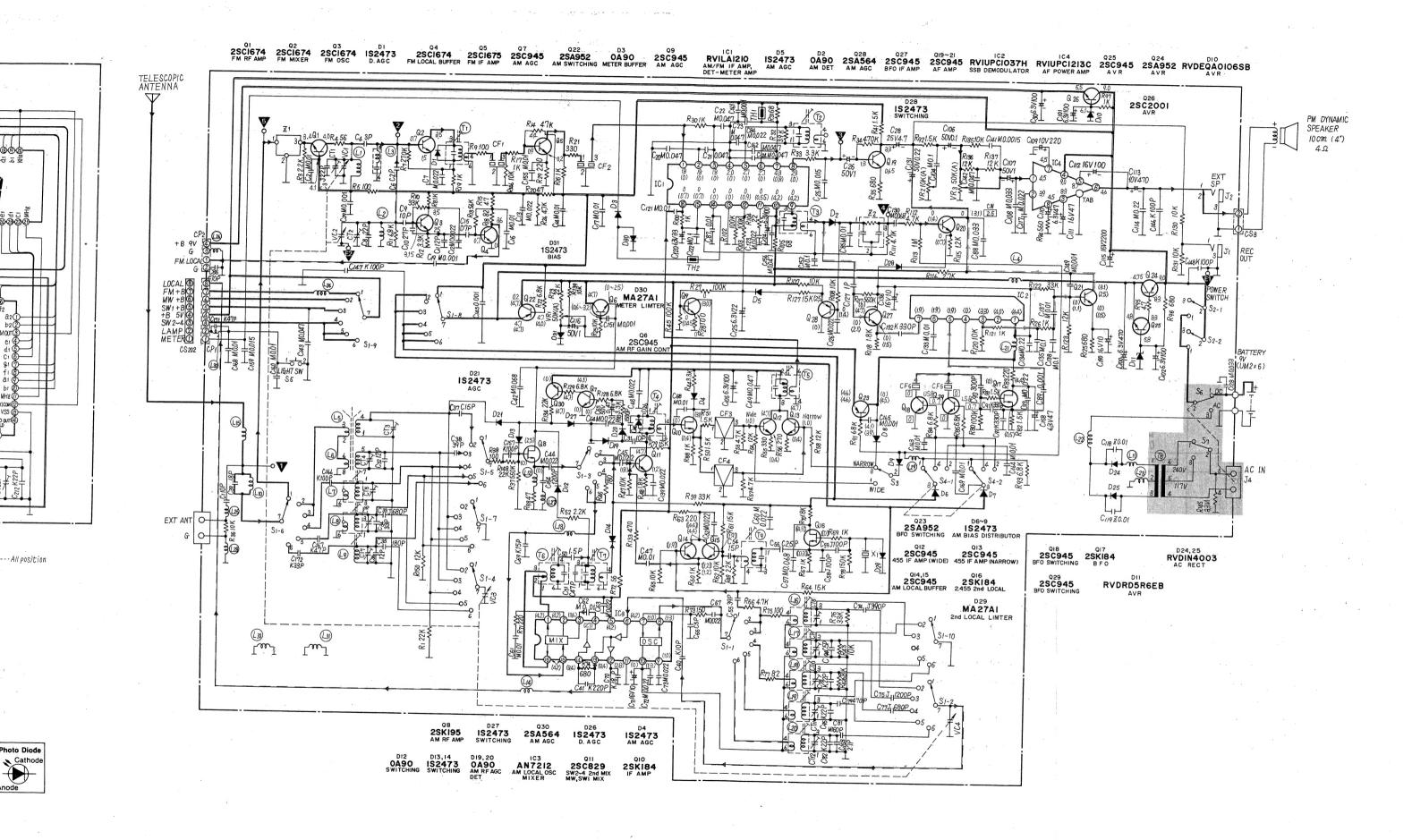
FM.LOC



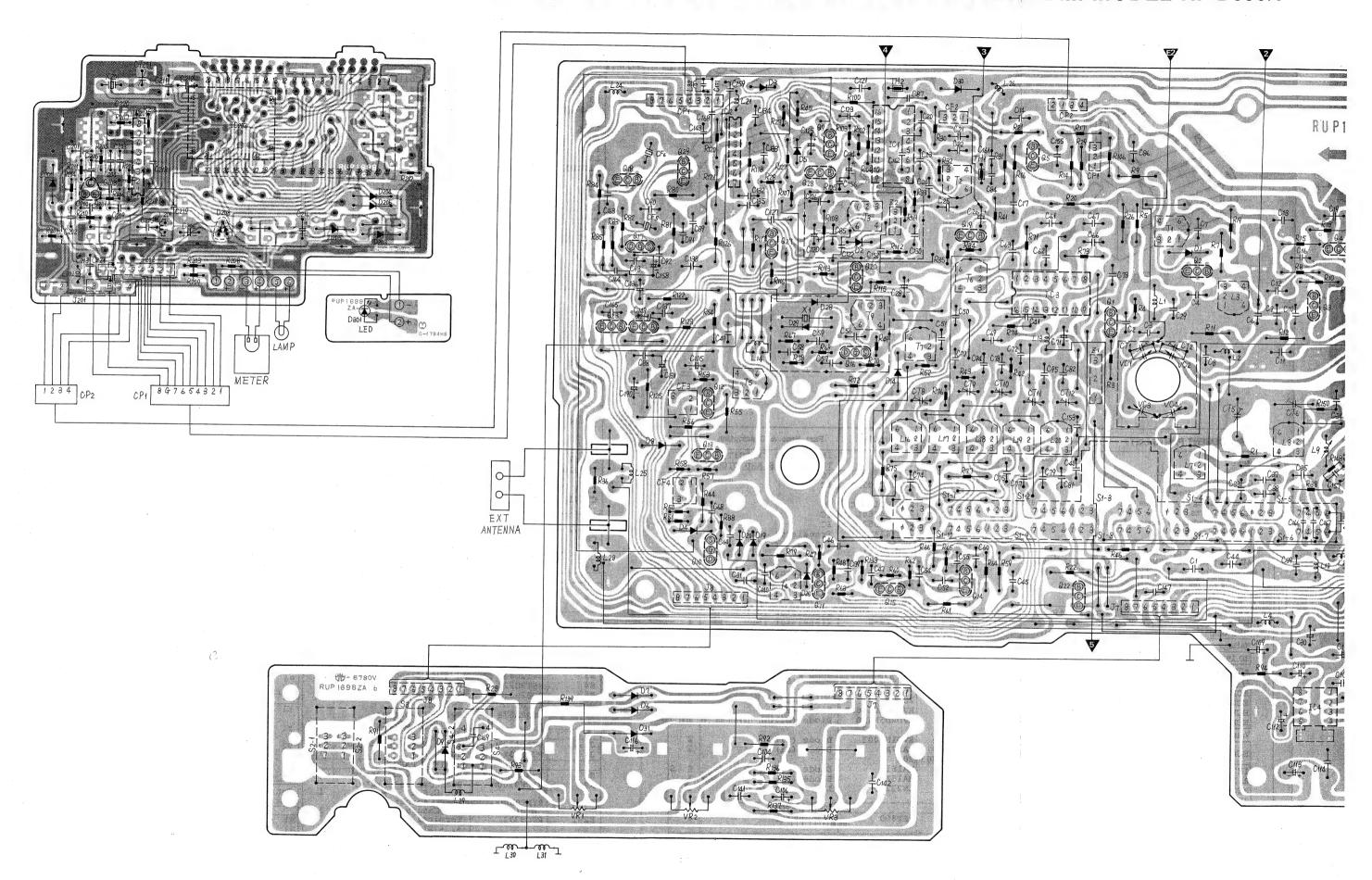


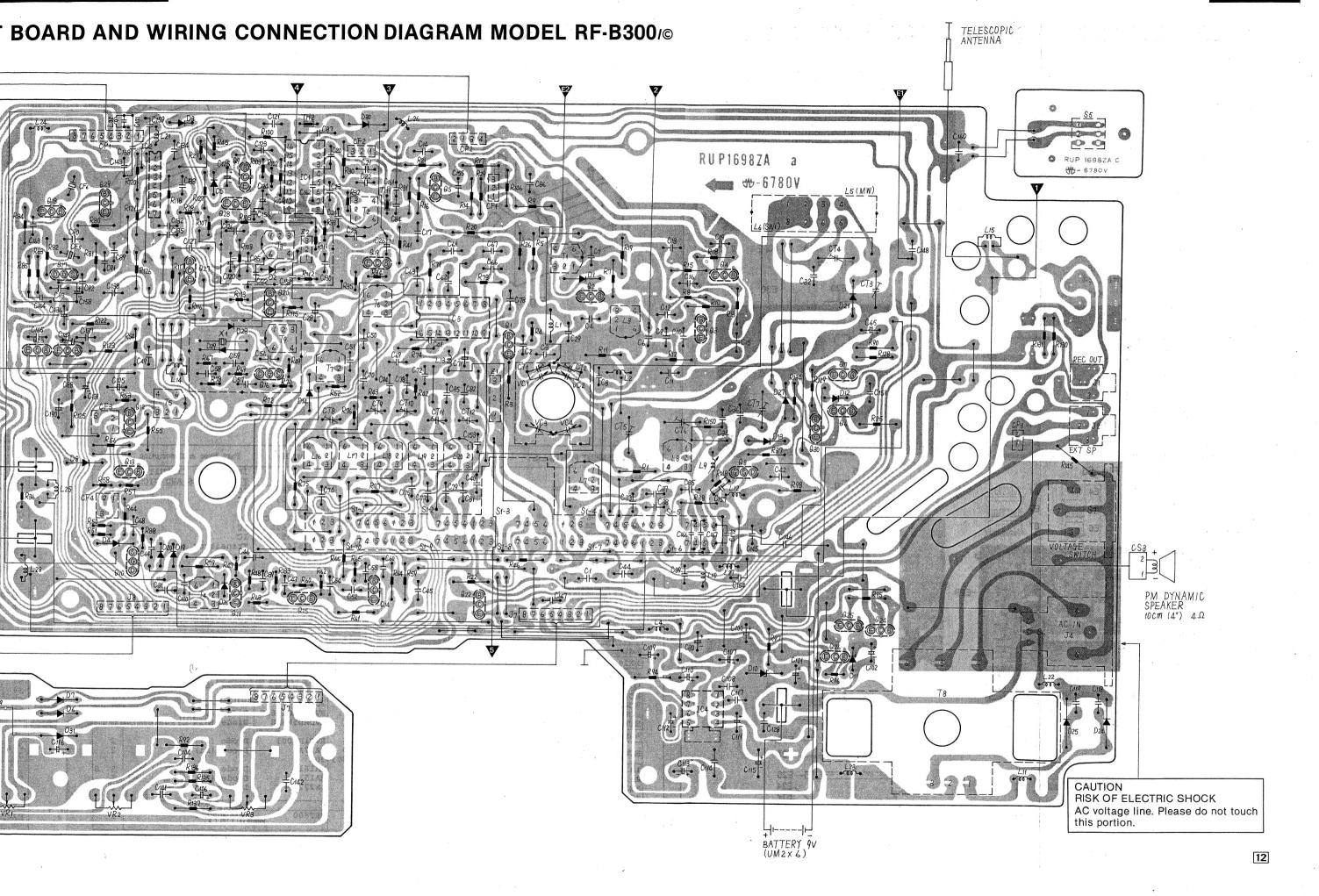
Varicap.





CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM MODEL RF-B300/©





CABINET AND ELECTRICAL PARTS LOCATION

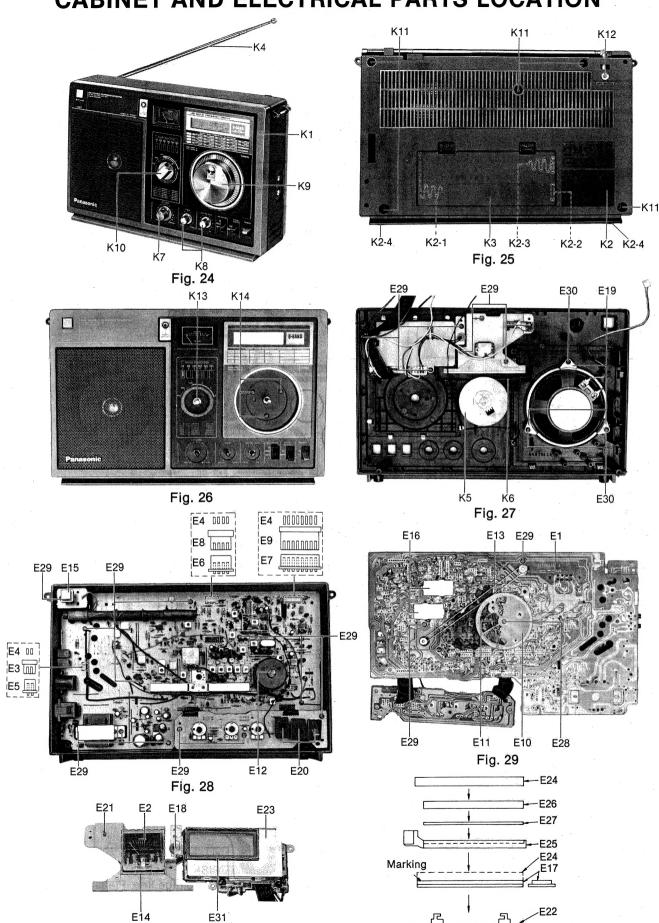
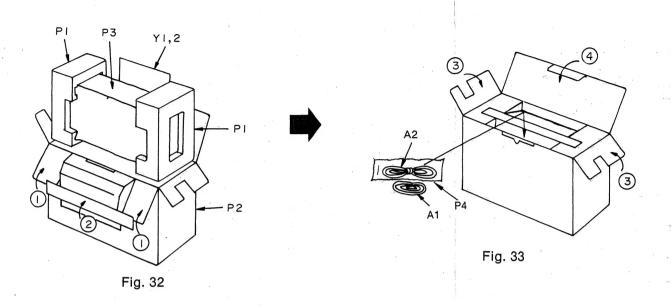


Fig. 30

ACCESSORY AND PACKING MATERIALS

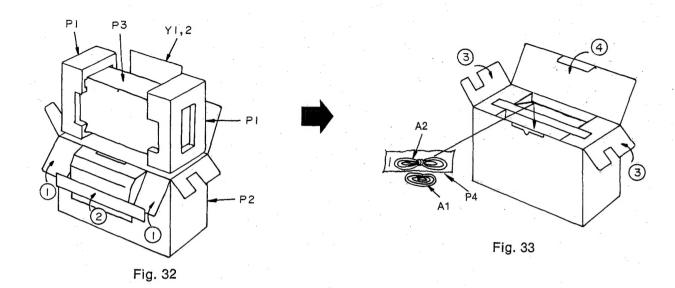


REPLACEM	■REPLACEMENT PARTS LIST······ RF-B300/©										
Notes:					(1	RD8308	5360Cl)				
1.Important s	afety notice										
Components	Components identified by Δ mark have special characteristics important for safety.										
	When replacing any of these components, use only manufacturer's specified parts.										
2. The S mark	2. The S mark indicates service standard parts and may differ from										
production p											
3.RESISTOR											
	rwise specif		7 700			21- 0	,				
	s are in OH										
All capacito	ors are in MI	ICRO F	ARAD	S (μμ.	$P=\mu_{i}$	μ.Ε.					
* Time & W	attage of Re	cictor									
Type		515001			ret in the contract of the con	Marie Land					
ERC:Solid						esister					
	n ERG:Meta										
RRD:Chip	ERO:Meta	al Film	ERF:	Cemen	t Resis	ster					
Wattage											
10,16:1/8	14,25:1/4	W 12:1/	2W 1:	1W 2:	2W 3:3	SW					
* Type & V	oltage of Ca	pacitor									
Туре											
	i-conductor	ECCD,I	ECKD,	ECB1	C:Cerai	nic					
ECQS:Sty	rol	ECQM,I	ECQV,	ECQ	3:Polye	ester					
ECUX:Chir		ECEA,I	ECSZ			rolytic					
ECMS:Mica	ı	ECQP			Polyr	ropylen	e				
Voltage											
ECQ Type	ECQG, ECQV, Type	ECSZ	Туре		0	thers					
1H: 50V	0,5: 50V	OF:3.	15V	OJ	:6.3V	1H,1V.5	50: 50V				
2A:100V											
2E:500V											
2H:500V											
Li-i-					-						

Ref. No.	Part No.	Part Name & Description	Pe Se	
		INTEGRATED CIRCUIT,		
		TRANSISTORS AND DIODES		
ICl	RVILA1210	IC	1	
IC2	RVIUPC1037H	IC	1	
IC3	AN7212	IC	1	- 1
IC4	RVIUPC1213C	IC	1	
IC201	RVIM54460L	IC	1	.1.
IC202	RVIMSM5527GS	IC	1	
01∿4	2SC1674L	Transistor (Si)	1	* -
05	2SC1675-L	Transistor (Si)	1	S
06.7.9.12	2√15,18√21,	,		
25,27,29				
	2SC945-0	Transistor (Si)	14	s
Q8	2SK195F1	Transistor (Si)	1	-
		114104001 (01)		
010,16,17	. "	(d) 40		
220,20,2	2SK184GR	Transistor (Si)	3	
011	2SC8 29 -B	Transistor (Si)	i	s
022√24	2SA952K2	Transistor (Si)	3	
Q26	2SC2001	Transistor (Si)	i	s
	2SA722-S	Transistor (Si)	2	s
0201	2SC1009F4	Transistor (Si)	ī	3
$D1,4\sim9,13$		Transistor (SI)	_	
26~28,31		Diode (Si)	14	
	154475	Diode (SI)	14	- 1
D2,3,12,	20700	D2 - 22 (G2)	-	s
19,20	20A90	Diode (Ge)	5	S
D10	RVDEQA0106SB	Diode (Si)	1	
Dll	RVDRD5R6EB	Diode (Si)	1	
-04.05	i	-1-1-1-1-1		
D24,25	RVD1N4003	Diode (Si)	2	
D29,30	MA27Al	Diode (Si)	2	
D201,203			_	اہ
	MA161	Diode (Si)	5	S
D208	MA151WK	Diode (Si)	1	
D301	LN222RP	LED	1	
		<u> </u>	-	
		THERMISTORS		
TH1,2	RRT800	Thermistor	2	

	x1 x201	RVCD2 RVCA6
	L1 L2 L3 L4,27,31	RLD4Y RLD4Y RLI4M RLQZB
	,32 L5,6 L7 L8 L9 L12,201 L16 L17 L18 L19 L20 L21 L24 L30 T1,2	RLF5F RLO3M RLA3M RLA3N RLQZG RLO2M RLO3M RLO3M RLO3M RLO3M RLQZB RLQZB RLQZB RLQZB RLQZB RLI4M RLI2M
	T4 T5 T6 T7,9	RLI2M RLI2M RLI9M RLI9M RLT5J
	VRl,3	EVHOX
	VR2	EVHOX
	VCl∿4	RCV4F
	CT3~5 CT6,7 CT8~10,1	RCV1G RCV1G
	CT11 CT201	RCVTZ RCVTZ RCVCI
	CF1,2 CF3 CF4 CF5 CF6	RVF10 RVFSF RVFSF RVFCS RVFCS
	Z1 Z2	RXABF EXAF2
. 160	00 V 0 V 0M	EASIC
	S1 S2 S3 S4 S5 S6 S7	RSR6J RST2E RST2E RST3E RSH2E Refer RSR2F
	J1,2 J4	QJA01 RJJ1#
	Kl K2	RYMFE RYFFE
	K2	RYFFE
	K2-1	RJC93

ACCESSORY AND PACKING MATERIALS



Notes: (RD83085360C1)										
1. Timpor	tant sa	afety notice								
	Components identified by A mark have special characteristics									
	important for safety.									
Tubor	White replacing any of these components use only manufacturer's									
	When replacing any of these components, use only manufacturer's									
	specified parts. 2. The S mark indicates service standard parts and may differ from									
2. The S	mark:	indicates se	rvice s	tandar	d part	s and n	nay diffe	r from		
produ	ction r	arts.								
3.RESI	STOR	S& CAPAC	ITORS							
Unles	s othe	rwise specif	ied.							
		s are in OH		K=100	M OO	=1000	ìkΩ			
		rs are in MI								
AH Ca	ipacito	is are in mi	ORO F.	ALLAD	$O(\mu x)$	Ιμ/	w.F.			
	0.117									
		ttage of Re	sister							
Typ	oe .									
ERC	Solid	ERX:Meta	l Film	ERW:	Wirewo	und Re	sister			
		n ERG: Meta								
		ERO:Meta				t Resis				
RRL	:Chip	ERO.Meta	CLETIM	ERE.	Cellen	t Resis	STAT			
Watt							_			
10,1	6:1/8	14,25:1/4	W 12:1/	2W 1:	1W 2:	2W 3:3	W			
*Tv	oe & Vo	oltage of Ca	pacitor							
Туре										
		1		- CITD	ECD#			٠ .		
1		i-conductor						}		
	S:Sty		ECQM,							
ECU	X:Chip)	ECEA,	ECSZ		:Elect	rolytic			
ECM	S:Mica	ı	ECQP			:Polyp	ropylene	· l		
Volta	age							-		
		ECQG,								
ECC	Type	ECQV, Typ	ECSZ	Туре		0	thers			
1H:	50V	0.5: 50V	OF:3.	15V	ОJ	:6.37	1H,1V,5	0: 50V		
	2A:100V 1:100V 1A:10V 1A :10V 1J : 63V									
	500V	2:200V	1V:35		1C	:16V		:100V		
1		£.£00 V	OJ:6.			:25V	NA.	.1001		
ZH.	00V		100.0.	٥ ٧	±£, ≈:	1.20 V				

REPLACEMENT PARTS LIST.....

Ref. No.	Part No.	Part Name & Description	Pe: Se	
		INTEGRATED CIRCUIT,		
		TRANSISTORS AND DIODES		
ICl	RVILA1210	IC	1	
IC2	RVIUPC1037H	IC .		
IC3	AN7212	IC	1	ı
IC4	RVIUPC1213C	IC	1	.
IC201	RVIM54460L	IC	1 1 4	
	RVIMSM5527GS	IC	1	
	2SC1674L	Transistor (Si)	4	- [
Q5	2SC1675-L	Transistor (Si)	1	S
	∿15,18∿21,			-
25,27,29				
	2SC945-Q	Transistor (Si)	14	S
Q8	2SK195F1	Transistor (Si)	1	
		, , ,		
Q10,16,17	}			
2,,	2SK184GR	Transistor (Si)	3	
Q11	2SC829-B	Transistor (Si)	ì	s
Q22√24	2SA952K2	Transistor (Si)	3	-
	2SC2001	Transistor (Si)	1	s
	2SA722-S	Transistor (Si)	3 1 2	s
	2SC1009F4	Transistor (Si)	ī	Ĭ
$D1,4\sim9,13$		liungistor (bi)	-	- 1
26~28,31		Diode (Si)	1.4	- 1
D2,3,12,	132413	prode (pr)	7.4	
19,20	20A90	Diode (Ge)	5	s
D10	RVDEQA0106SB	Diode (Ge)	li	3
			li	- 1
Dll	RVDRD5R6EB	Diode (Si)	1	- 1
204 25	mrm 3 27 4 0 0 2	minate (At)	1	
	RVD1N4003	Diode (Si)	2 2	
D29,30	MA27A1	Diode (Si)	2	- 1
D201,203				
	MA161	Diode (Si)	5	s
D208	MA151WK	Diode (Si)	1	- 1
D301	LN222RP	LED	1	- [
		The second secon	<u></u>	
		THERMISTORS		
TH1,2	RRT800	Thermistor	2	

Ref. No.	Part No.	Part Name & Description	Per	Ref. No.	Part No.	Part Name & Description	P
	Zarc Rox	CRYSTALS	Set	K2-2	RJC212Z	Terminal, Battery	S
(1	RVCD2455NRN	Crystal	1		11002122	+ Side	
201	RVCA6553NZN	Crystal	1 1	K2-3	RJC9003Z	Spring, Battery - Side	
			1				
				K2-4	RHG342Z	Rubber, Foot	
				К3	RYNFB300M	Battery Cover Ass'y	
		COTT C THE MEANGEODMEDS	 	K4	XEARR225EAY	Telescopic Antenna]]
		COILS AND TRANSFORMERS		K5	RDG5022Z	Band Shaft]
1	RLD4Y44	Antenna Coil, FM	1	K6	RGK9005Z	Band Indicator]
2	RLD4Y43	Oscillator Coil, FM	1				
,3·	RLI4M103	Trap Coil	1	K7	RBN655Z	Knob, Volume	1
4.27.31	RLQZB101K	Choke Coil	4 1	K8	RBN656Z	Knob, Tone, RF Gain	1 2
32							1 3
	RLF5F94	Antenna Coil, MW, SWl	1	К9	RYTFB300M	Tuning Knob Ass'y	
5,6			li l	K10	RBS153Z1	Knob, Band	1
.7	RLO3M22	Antenna Coil, SW2		Kll	XTV3+40G	Screw, Cabinet M'tg	5
,8	RLA3M67	Antenna Coil, SW3	1	K12	XYN3+F12FN	Screw, Telescopic	1
.9	RLA3N14	Antenna Coil, SW4	1			Antenna M'tg	1
12,201	RLQZG102K	Choke Coil	2 .	K13	XUC4FT	Circlip, Band Shaft	
16	RLO2M14	Oscillator Coil, MW	1.	1,20		M'tq	. 1
17	RLO3M32	Oscillator Coil, SW1	1 1	K14	XTV3+12G		1 -
18	RLO3M15	Oscillator Coil, SW2	1	K14	A1V3+12G	Screw, Tuning Shaft	_ ا
			i		1	Block M'tg	3
19	RLO3M78	Oscillator Coil, SW3					
20	RLO3M85	Oscillator Coil, SW4	1			ELECTRICAL PARTS	
21	RLQZB471K	Choke Coil	1.	El	RZCFB300M	Dial Roller Ass'y	1
24	RLQZB100K	Choke Coil	1	E2	RSM2540Z	Meter	li
30	RLQZB4R7K	Choke Coil	1	E3			li
1,2	RLI4M101	IFT, FM	2		RJS2L3Z	Socket, 2 Pin	
			l i	E4	RJT707Z	Terminal, Socket	14
3	RLI2M402	IFT, AM 2nd	1	E5	RJP2G4Z	Plug, 2 Pin	1
			,	E6	RJP4G4Z	Plug, 4 Pin	1
4 .	RLI2M214	IFT, AM 2nd	1	E7	RJP8G4Z	Plug, 8 Pin	1
5	RLI2M205	IFT, AM 2nd	1	E8	RJS4L3Z	Socket, 4 Pin	1
6	RLI9M3	IFT, AM 1st	1	E9	t .		נו
7,9	RLI9M7	IFT, AM 1st	2		RJS8L3Z	Socket, 8 Pin	
8	RLT5J3ClA	Power Transformer	1 1	ElO	RDD655Z	Drum, Dial	1
-				II _ • -	1		1
		* 4	1 1	Ell	RDS4090A	Spring, Drum	[1
		TYADTADES DEGLESOOF	 	E12	RDT9135Z	Tuning Shaft Ass'y	1
		VARIABLE RESISTORS		E13	RDZ05A1	Cord, Dial	1 R
R1,3	EVHOXAF15A54	Variable Resistor,		E14	RHG2032Z	Rubber, Meter	1
	1	50kΩ (A)	2	E15	RBC485Z	Button, Light	i
R2	EVHOXAF15A14	Variable Resistor,	1				
		10kΩ (A)	1	E16	RMC382Z	Shield Cover	2
		201111 (11)	- 1	El7	RADLCD453-02		1
		VARIABLE CAPACITORS		E18	XAMR43T100A	Pilot Lamp	1
	DOTA DODATA			E19	RMS12B	Bracket, Speaker	3
C1∿4	RCV4RC2VK	Tuning Capacitor/with	1 1	E20	RUV379Z	Cover, Switch	3
		Trimmer Capacitor			:		
		(CT1,2)	1	E21	RMP128Z	Holder, LED	1
T3√5	RCV1GT10A	Trimmer Capacitor	3	E22		Cover, LCD	lī
T6,7	RCV1GT20A	Trimmer Capacitor	2		RMC891Z		
T8~10,1				E23	RMC892Z	Shield Plate, LCD Bloc	
.10010,1	RCVTZ11F	Trimmer Capacitor	4	E24	RHG5024Z	Conductive Rubber	2
	1		i	E25	RHR1219Z	Spacer	1
Tll	RCVTZ20F	Trimmer Capacitor		E26	RHR2044Z	Cushion	1
T201	RCVCTZ3110	Trimmer Capacitor	1	E27	RDH199Z	Reflection Plate	1
				E28	XYN26+C8	Screw, Drum M'tg	
		CERAMIC FILTERS	1		AINZOTCO	Screw, Circuit Board,	
		CERMITC LITTERS			3700573 . 3 0.0	iscrew. Circuit Board.	
F1.2	RVF107NAR		2	E29	XTV3+12G		1
F1,2	RVF107NAR RVFSFP455H10	Ceramic Filter				etc. M'tg	23
F3	RVFSFP455H10	Ceramic Filter Ceramic Filter	1	E30	XTV3+12G XTV3+10G	etc. M'tg Screw, Speaker, etc.	23
F3 F4	RVFSFP455H10 RVFSFP455K	Ceramic Filter Ceramic Filter Ceramic Filter	1			etc. M'tg	23
F3 F4 F5	RVFSFP455H10 RVFSFP455K RVFCSB453R5	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element	1 1 1			etc. M'tg Screw, Speaker, etc.	23
F3 E4 F5	RVFSFP455H10 RVFSFP455K	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element	1 1 1	E30	XTV3+10G	etc. M'tg Screw, Speaker, etc. M'tg	23
F3 F4	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element COMPONENT COMBINATIONS	1 1 1 1			etc. M'tg Screw, Speaker, etc.	23
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element COMPONENT COMBINATIONS Component Combination	1 1 1 1	E30	XTV3+10G	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover	23
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element COMPONENT COMBINATIONS	1 1 1 1	E31	XTV3+10G RMC936Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover	23
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element COMPONENT COMBINATIONS Component Combination	1 1 1 1	E30 E31	XTV3+10G RMC936Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder	23 3 1
F3 F4 F5	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination	1 1 1 1	E31	XTV3+10G RMC936Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover	23 3 1
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination	1 1 1 1	E30 E31	XTV3+10G RMC936Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power	23 3 1
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"),	1 1 1 1 1	E30 E31 A1 A2	XTV3+10G RMC936Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder	23
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω	1 1 1 1	E30 E31	XTV3+10G RMC936Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power	23
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES	1 1 1 1 1 1	E30 E31 A1 A2	XTV3+10G RMC936Z RQC9017Y RJA22Y	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad	23
F3 F4 F5 F6 1 2	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A	23 3 1 1 1
F3 F4 F5 F6 1 2	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES	1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada	23 3 1 1 1 1
F3 F4 F5 F6 1 2	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power	1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2 P3	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se	23 3 1 1 1 1
F3 F4 F5 F7 1 2	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width	1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover,	23 3 1 1 1 1 1
F3 F4 F5 F7 1 2	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST2B34Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode	1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2 P3	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord	23 3 1 1 1 1 1
F3 F4 F5 F6 1 2	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RSTZB34Y RSTZB34Y RSTZB34Z RSTBB22Z RSH2B24X	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light	1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2 P3	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover,	23 3 1 1 1 1 1
F3 FF5 FF6 12 123456	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RSTZB34Z RST3B22Z RSHZB24X Refer to J4	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC	1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2 P3	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS	1 23 3 1 1 1 1 1 1 1
F3 FF5 FF6 12 123456	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RSTZB34Y RSTZB34Y RSTZB34Z RSTBB22Z RSH2B24X	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light	1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2 P3 P4	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book,	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 FF5 FF6 12 123456	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RSTZB34Z RST3B22Z RSHZB24X Refer to J4	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC	1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6 12 12 34 45 6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RSTZB34Z RST3B22Z RSHZB24X Refer to J4	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, Voltage Selector	1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P2 P3 P4	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book,	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 FF5 FF6 1 2 1 2 3 4 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Y RST2B34Z RST3B22Z RSH2B24X Refer to J4 RSR2A07Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC Switch, Voltage Selector JACKS	1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6 1 1 2 3 4 5 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST3B22Z RSH3B2ZZ RSH3B2ZX Refer to J4 RSR2A07Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP	1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual,	1 23 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F5 F6 1 2 1 2 3 4 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Y RST2B34Z RST3B22Z RSH2B24X Refer to J4 RSR2A07Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC	1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada	1 23 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F5 F6 1 2 1 2 3 4 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST3B22Z RSH3B2ZZ RSH3B2ZX Refer to J4 RSR2A07Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual,	1 23 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST3B22Z RSH3B2ZZ RSH3B2ZX Refer to J4 RSR2A07Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC	1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual,	1 23 3 1 1 1 1
F3 F4 F5 F6 1 1 2 1 2 3 4 5 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST2B34Z RST3B22Z RSH2B24X Refer to J4 RSR2A07Z QJA0172A RJJ1A3Z RYMFB300M8	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC CABINET PARTS Front Cabinet Ass'y	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1	RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual,	1 23 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6 1 2 1 2 3 4 5 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST3B22Z RSH2B24X Refer to J4 RSR2A07Z	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 40 SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, AC/DC Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC CABINET PARTS Front Cabinet Ass'y Rear Cabinet Ass'y	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P3 P4 Y1 Y1 Y2	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z RQX9154Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual, for U.S.A	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6 1 2 1 2 3 4 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST2B34Z RST2B24X Refer to J4 RSR2A07Z QJA0172A RJJ1A3Z RYMFB300M8 RYFFB300M	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC CABINET PARTS Front Cabinet Ass'y Rear Cabinet Ass'y for U.S.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P3 P4 Y1 Y1 Y2	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z RQX9154Z	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual, for U.S.A	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6 1 1 2 1 2 3 4 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST2B34Z RST3B22Z RSH2B24X Refer to J4 RSR2A07Z QJA0172A RJJ1A3Z RYMFB300M8	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4\Omega SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AC/DC Switch, Light Switch, AC/DC Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC CABINET PARTS Front Cabinet Ass'y Rear Cabinet Ass'y, for U.S.A. Rear Cabinet Ass'y,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1 Y1 No.	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z RQX9154Z Part No. Va	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual, for U.S.A	1 23 3 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
F3 F4 F5 F6 1 2 1 2 3 4 5 6 6 7	RVFSFP455H10 RVFSFP455K RVFCSB453R5 RVFCSB456R5 RXABPMB1 EXAF203Z471F EAS10P253S RSR6J04Z RST2B34Y RST2B34Z RST2B34Z RST2B24X Refer to J4 RSR2A07Z QJA0172A RJJ1A3Z RYMFB300M8 RYFFB300M	Ceramic Filter Ceramic Filter Ceramic Filter Ceramic Element Ceramic Element Ceramic Element Component Combination Component Combination Component Combination SPEAKER Speaker, 10 cm(4"), 4Ω SWITCHES Switch, Band Switch, Power Switch, Band Width Switch, AM Mode Switch, Light Switch, Voltage Selector JACKS Jack, REC OUT, EXT SP Jack, AC CABINET PARTS Front Cabinet Ass'y Rear Cabinet Ass'y for U.S.A.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E30 E31 A1 A2 P1 P2 P2 P3 P4 Y1 Y1 Y1 Ref. No. RES	XTV3+10G RMC936Z RQC9017Y RJA22Y RPN9447Z RPK1665Z RPK1679Z XZB50×40A01 XZB10×25A04 RQX4189Z RQX4199Z RQX9154Z Part No. Va	etc. M'tg Screw, Speaker, etc. M'tg Shield Cover ACCESSORIES Belt, Shoulder Cord, AC Power PACKING MATERIALS Pad Gift Box, for U.S.A Gift Box, for Canada Polyethylene Cover, Se Polyethylene Cover, AC Cord PRINTED MATERIALS Instruction Book, for U.S.A Instruction Book, for Canada Short Wave Manual, for U.S.A	1 23 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value	Ref. No.	Part No.	Value
R8	ERD25FJ102	1K S	R100	ERD25FJ102	1K S	C31	ECCD1H100KC	10P	C118		0.01
R9	ERD25FJ101	100 s		ERD25TJ104	100K S	C32	ECCD1H120KC	12P	C119		0.01
R10	ERD25FJ333	33K S		ERD25TJ104	100K S	C33	ECQS2B681JZ	680P	C120		33 S
R11	ERD25FJ682	6.8K S	R104		22 S				C121		0.01
R12 R13	ERD25FJ332	3.3K S	R105	ERD25FJ680 ERD25FJ103	68 S	C34	ECCD1H330KC	33P	C123		0.022
R14	ERD25FJ563 ERD25FJ473	56K S	R108	ERD25FJ103	10K S	C35	ECMS05181J	180P	C124		470
R15	ERD25FJ470	47 S	R111	ERD25FJ472	4.7K S	C36	ECCD1H120KC ECCD1H150KC	12P 15P	0		
RI6	ERD25FJ102	1K S	R112	ERD25FJ472	4.7K S	C38	ECCDIHI30KC	39P	C1.25	ECEAlES220	22 S
R17	ERD25FJ102	lk s	R113	ERD25TJ105	1M S	C39	ECCD1H180KC	18P	C126	ECFT1E223MD	0.022
R18	ERD25FJ820	82 S				C40	ECCD1H100KU	10P	C127	ECBS1H1R0	1P
R19	ERD25FJ102	lk s		ERD25FJ122	1.2K S	C41	ECBS1H221KB	220P	C128		0.033
R20	ERD25FJ470	47 S		ERD25FJ272	2.7K S 560K S	C42	ECFT1E683MD	0.068	C130	ECFT1E683MD ECEA1HSR22	0.068
R21	ERD25FJ331	330 S		ERD25TJ564 ERD25FJ182	1.8K S	C44	ECFT1E223MD	0.022	C131	ECCD1H331K	330P
R22 R23	ERD25FJ682 ERD25FJ223	6.8K S		ERD25FJ103	10K S	C45	ECFT1E223MD	0.022	C133	ECFT1E103MD	0.01
1123	ERDZSIOZZS	ZZKO		ERD25FJ102	lK S	C46	ECFT1E223MD	0.022	C134	ECFT1E223MD	0.022
R25	ERD25FJ103	10K S	R122	ERD25FJ333	33K S	C47	ECFT1E103MD	0.01	C135	ECFT1C104MD	0.1
R26	ERD25FJ472	4.7K S	R123	ERD25FJ123	12K S	C49	ECFT1E473MD	0.047			
R27		100K S		ERD25FJ681	680 S	C50	ECCD1H1R5C	1.5P	C136		10 S
R28		100 S	R126	ERD25FJ102	lK S	C51	ECCD1H470KC	47P	C137	ECFT1E103MD	0.01
R29		220 S	R127	ERD25FJ153	15K S	C52	ECFT1E223MD	0.022	C138	ECFT1C104MD ECFT1E223MD	0.1
R30 R31	ERD25FJ102 ERD25FJ680	1K S		ERD25FJ682	6.8K S	C54	ECCD1H150KC	15P 39P		ECQP2A152JZ	1500P
R32		3.9K S		ERD25FJ682	6.8K S	C56	ECCD1H390KC ECCD1H2R5C	2.5P	C141		0.001
R33	ERD25FJ332	3.3K S	R130	ERD25FJ103	10K S	030	ECCDINERSO	2.31	C142		0.047
R34		470K S		ERD25FJ103	10K S	C57	ECFV1E683MD	0.068	C143	ECFT1E473MD	0.047
R35		680 S		ERD25FJ471	470 S	C58	ECMS05101J	100P	C145		0.001
R36	ERC12GM103	10K S	R134	ERD25FJ223	22K S	C59	ECMS05101J	100P	C146	ECCD1H101K	100P
R37		560K S		ERD25FJ103	10K S	C60	ECFT1E223MD	0.022	23.47	EGGD]#101#	1000
R41		100 S	R136	ERD25FJ123 ERD25FJ123	12K S	C61	ECFT1E103MD	0.01	C147	ECCD1H101K	100P 100P
R42		6.8K S	123,	DRD2310123		C62	ECFT1E103MD ECFT1E223MD	0.01	C149		0.001
R43	ERD25FJ103	10K S	R139	ERD25FJ103	10K S	C64	ECFT1E223MD	0.022	C150	ECCD1H101K	100P
R44	ERD25FJ332	3.3K S	R145	ERC12ZGM335	3.3M ▲	C65	ECEA50ZR47	0.47 S	C151		0.001
R45		100K S		ERD25FJ103	10K S	C66	ECCD1H050CC	5P		ECFV1C104MD	0.1
R46		180 S		ERD25FJ222	2.2K S				C153	ECCD1H270KC	27P
R47	ERD25FJ103	10K S		ERD25FJ123	12K S	C67	ECFT1E223MD	0.022	C154	ECQP2A122JZ	1200P
R49		1.8K S		RRD18XJ151 RRD18XJ472	150 4.7K	C68	ECFT1E103MD	0.01		ECKD1H103MD ECFV1E473MD	0.01
R50		1.5K S		RRD18XJ681	680	C69	ECCD1H150KC	15P 18P	C156	ECT VIE4/3MD	0.047
R51		1.5K S		RRD18XJ103	10K	C71	ECCD1H180KC ECEA1HS100	10 S	C157	ECCD1H101K	100P
R52		1.8K S		RRD18XJ102	1K	C72	ECFT1E223MD	0.022	C158		47 S
R53		4.7K S			550	C73	ECFT1E223MD	0.022	C159		0.015
R54	ERD25FJ123	12K S	R206 R207	RRD18XJ561 RRD18XJ103	10K	C74	ECQP2A391JZ	390P		ECKD1H103MD	0.01
R55 R56		330 S 270 S		RRD18XJ332	3.3K	C75	ECQS2B122JZ	1200P	C161		0.001
R57		4.7K S		RRD18XJ221	220	C77	ECQS2B681JZ	680P	C162		0.047
R58	ERD25FJ123	12K S	R210	RRD18XJ182	1.8K	C78	BOOD LICONY	22P	C163		0.01
R59	ERD25FJ333	33K S	R211	RRD18XJ472	4.7K	C79	ECCD1H220KX ECQS2B471JZ	470P	C165		0.001
R60	ERD25FJ102	1K S	R212	RRD18XJ103	10K	C81	ECMS05161J	160P		ECCD1H101K	100P
.R61	ERD25FJ153	15K S	R218	RRD18XJ103	10K	C82	ECCD1H220KX	22P			
R62	ERD25FJ103	10K S	R219	ERD10TJ472	4.7K S	C84	ECFT1E223MD	0.022		ECCD1H470KC	47P
R63 R64	ERD25FJ221 ERD25FJ153	220 S 15K S		CAPACITORS		C85	ECKD1H103MD	0.01		ECKD1H103MD	0.01
R65	ERD25FJ103	10K S	C1	ECCD1H100KC	10P	C86	ECKD1H471KB	470P		ECKD1H103MD	0.01 47P
R66	ERD25FJ472	4.7K S	C2	ECFT1E103MD	0.01	C87	ECBS1C103NY	0.01		ECCD1H470KC ECCD1H330KC	33P
R67	ERD25FJ102	1K S	C3	ECCD1H220JC	22P	C88	ECFT1E333MD ECKD1H102ZF	0.033		ECEALHS100	10 S
R69	ERD25FJ102	1K S	C4	ECCD1H030C	3P	009	TOWN THE OF OR	3.001		ECUX1H101K	100P
R70	ERD25FJ182	1.8K S	C6	ECCD1H020C	2P	C90	ECQS2B301JZ	300P		ECUX1H103MD	0.01
R71 R72	ERD25FJ221 ERD25FJ560	220 S	C7	ECFT1E223MD	0.022 22P	C91	ECCD1H331K	330P		ECUX1H103MD	0.01
R73	ERD25FJ151	150 S	C8	ECCD1H220JC ECCD1H100KC	10P	C92	ECCD1H331K	330P		ECUX1E473MD	0.047
R74	ERD25FJ681	680 S	C10	ECCD1H100KC	27P	C93	ECFT1E223MD	0.022		ECUX1H103MD	0.01
R75	ERD25FJ101	100 S	Cll	ECCD1H270KC	12P	C94	ECCD1H050CU	5P	C206	ECEALAS470	47 S
R76	ERD25FJ333	33K S				C95	ECCD1H220KX ECEA0JS471	22P 470 S	CSUB	ECUX1H223MD	0.022
R77	ERD25FJ820	82 S	C12	ECKD1H222MD	0.0022	C100		100 S		ECUX1H103MD	0.01
R78		150K S	C13	ECFT1E223MD	0.022	C102		100 S	C211		22P
R79 R80	ERD25FJ153 ERD25TJ104	15K S	C14	ECKD1H103MD	0.01		ECFT1C104MD	0.1		ECUX1H220KC	22P
R81	ERD25TJ104 ERD25FJ152	1.5K S	C15	ECCD1H050CC	5P 0.01					ECUX1H330KC	33P
R82	ERD25FJ152	1.5K S	C16	ECKD1H103MD ECFT1E103MD	0.01		ECEA0JU471	470		ECUX1H180KC	18P
R83	ERD25FJ221	220 S	C19	ECKD1H102MD	0.001		ECEA50ZR1	0.1 S		ECUX1H101K	100P
R84	ERD25FJ682	6.8K S	C20	ECFT1E473MD	0.047		ECEA50Z1	1 S	C216	ECEALAS470 ECKD1H102MD	47 S
R85	ERD25FJ682	6.8K S	C21	ECFT1E473MD	0.047		ECKD1H332MD ECEA1AS221	0.0033 220 S	C217		0.001
R88	ERD25FJ102 ERD25FJ333	1K S	C22	ECFT1E473MD	0.047		ECEALAS221	47 S	1 2210	201.12010400	
R91	ERD25TJ683	68K S					ECEALCS470	47 S	C219	ECCD1H331K	330P
R92	ERD25FJ152	1.5K S	C23	ECFT1E473MD	0.047		ECEALES101	100 S	C220		0.047
R93	ERD25FJ682	6.8K S	C24	ECFT1E473MD	0.047	C113	ECEALAS471	470 S	C221	ECKD1H103MD	0.01
R94	ERD25FJ561	560 S	C25	ECFT1E153MD ECEA50Z1	0.015 1 S	C114	ECQG1H224MZ	0.22			
R95	ERD25FJ4R7	4.7 S	C28	ECEASUZI ECEA25Z4R7	4.7 S	0335	mana 1 4 = 2 2 2	10000 -		}	
R96	ERD25FJ681	680 S	C29	ECKD1H102MD	0.001		ECEAlCS222	2200 S			
R97	ERD25FJ102	1K S	C30	ECEAlAS101	100 S		ECEA50Z1 ECFT1E223MD	1 S 0.022			
1/20	ERD25FJ470	4/ 3	· L					3.022	L	L	